

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

HEAT TRANSFER FLUID COMPOSITIONS FOR LOW TEMPERATURE APPLICATIONS

the specification of which (check one)

- ☒ is attached hereto.
☐ was filed on _____ as Application Serial No. _____ and
was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of one or more existing claims when such information is not cumulative to information already of record, or being made of record, during the examination of this application in accordance with Title 37, Code of Federal Regulations, Sec. 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Sec. 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Priority Foreign Application(s)

(Number) (Country) (Day/Month/Year filed)

Priority Claimed
Yes ☐ No ☐

(Number) (Country) (Day/Month/Year filed)

Yes ☐ No ☐

(Number) (Country) (Day/Month/Year filed)

Yes ☐ No ☐

I hereby claim the benefit under Title 35, United States Code, Sec. 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Sec. 112, I acknowledge the duty to disclose

material information as defined in Title 37, Code of Federal Regulations, Sec. 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

08/674,348	07/02/1996	PENDING
(Application Serial No.)	(Filing Date)	(Status - patented, pending, abandoned)

(Application Serial No.)	(Filing Date)	(Status - patented, pending, abandoned)
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And I hereby appoint Sanford J. Piltch, Registration No. 29,997, as my attorney or agent with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith.

Please address all correspondence with respect to this application to:

Sanford J. Piltch, Esq.
The Atrium - Suite 204
2895 Hamilton Boulevard
Allentown, PA 18104

Please direct all telephone calls to Sanford J. Piltch at 610-433-6266 and telecopier facsimile transmissions at 610-820-9566.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF SOLE OR FIRST INVENTOR: **James T. Hsu**

INVENTOR'S SIGNATURE _____

James T. Hsu

DATE: **July 10, 2000** CITIZENSHIP: **U.S.A.**

RESIDENCE: **3101 Kenwick Circle, Bethlehem, PA 18018**

POST OFFICE ADDRESS: (same as above)

FULL NAME OF SECOND INVENTOR: **Satish Mohapatra**

INVENTOR'S SIGNATURE _____

S. Mohapatra

DATE: **July 10, 2000** CITIZENSHIP: **INDIA**

RESIDENCE: **422 Pierce Street, 2nd Floor, Bethlehem, PA 18015**

POST OFFICE ADDRESS: (same as above)

FULL NAME OF THIRD INVENTOR **Daniel J. Loikits**

INVENTOR'S SIGNATURE



DATE: **July 10, 2000** CITIZENSHIP: **U.S.A.**

RESIDENCE: **76 Oak Lane, Northampton, PA 18067**

POST OFFICE ADDRESS: (same as above)

000140606T960

APPLICANT OR PATENTEE:

James T. Hsu, et al.

SERIAL OR PATENT NO.:

ATTORNEY'S DOCKET NO.:

429-11

FILED OR ISSUED:

[Herewith]

FOR:

HEAT TRANSFER FLUID COMPOSITIONS
FOR LOW TEMPERATURE APPLICATIONS

**VERIFIED STATEMENT (DECLARATION)
CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(F) AND 1.27(B)) - INDEPENDENT INVENTOR**

Commissioner for Patents
Washington D.C. 20231

Sir:

I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees to the U.S. Patent and Trademark Office with regard to the invention, entitled: **Heat Transfer Fluid Compositions for Low Temperature Applications** by inventor(s): **James T. Hsu, Satish Mohapatra, Daniel J. Loikits** described in

- ☒ the specification filed herewith.
☐ application Serial No. _____, filed _____
☐ Patent No. _____, issued _____

I also hereby declare that rights under contract or law, by assignment, grant, license or other conveyance, have / ~~have not~~ been conveyed by the individual inventor identified above and no rights to the invention are held by any person, other than the inventor, who could not qualify as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which could not qualify as a small business concern under 37 CFR 1.9(d), or a non-profit organization under 37 CFR 1.9(e).

Each entity to which I have assigned, granted, licensed or otherwise conveyed, or each entity to which I am under an obligation under contract or law to assign, grant, license or otherwise convey, any rights in the invention is identified below:

- ☐ No such person, small business concern, or non-profit organization exists.

NAME OF ENTITY: **Advanced Fluid Technologies, Inc.**
ADDRESS: **5250 W. Coplay Road, Whitehall, PA 18052**

- ☐ Individual
☒ Small Business Concern
☐ Non-profit Organization

NAME OF ENTITY:
ADDRESS:

- ☐ Individual
☐ Small Business Concern
☐ Non-profit Organization

Separate verified statements are required from each individual, small business concern or non-profit organization having rights to the invention averring to their status as small entities. (37 CFR 1.27).

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or maintenance fee due after the date on which the status as a small entity is no longer appropriate. (37 CFR 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing therefrom, or any patent to which this verified statement is directed.

INDEPENDENT INVENTOR:

James T. Hsu

ADDRESS OF PERSON SIGNING:

**3101 Kenwick Circle
Bethlehem, PA 18018**

SIGNATURE:

James T. Hsu

DATE:

July 10, 2000

Satish Mohapatra

**422 Pierce Street, 2nd Flr.
Bethlehem, PA 18015**

S. M. Chapin

DATE: **July 10, 2000**

Daniel J. Loikits

76 Oak Lane
Northampton, PA 18067

Northamp

DATE: **July 10, 2000**

[illegible]

APPLICANT OR PATENTEE:

Advanced Fluid Technologies, Inc.

SERIAL OR PATENT NO.:

ATTORNEY'S DOCKET NO.:

429-11

FILED OR ISSUED:

[Herewith]

FOR:

**HEAT TRANSFER FLUID COMPOSITIONS
FOR LOW TEMPERATURE APPLICATIONS**

**VERIFIED STATEMENT (DECLARATION)
CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(C-F) AND 1.27(C)) - SMALL BUSINESS CONCERN**

Commissioner of Patents and Trademarks
Washington D.C. 20231

Sir:

I hereby declare that I am

☐

the owner of the small business concern identified below;

☒

an official of the small business concern empowered to act on behalf of the said concern identified below;

NAME OF CONCERN:

Advanced Fluid Technologies, Inc.

ADDRESS OF CONCERN:

**5250 W. Coplay Road
Whitehall, PA 18052**

and that said concern qualifies as a small business concern as defined in 37 CFR 1.9(d) for purposes of paying reduced fees to the U.S. Patent and Trademark Office with regard to the invention, entitled: **Heat Transfer Fluid Compositions for Low Temperature Applications**

by inventor(s): **James T. Hsu, Satish Mohapatra, Daniel J. Loikits**
described in

☒

the specification filed herewith.

☐

application serial no. _____, filed _____.

☐

patent no. _____, issued _____.

I also hereby declare that rights under contract or law, by assignment, grant, license or other conveyance, have been conveyed to and remain with the small business concern identified above and no rights to the invention are held by any person, other than the inventor, who could not qualify as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which could not qualify as a small business concern under 37 CFR 1.9(d), or a non-profit organization under 37 CFR 1.9(e).

Each entity to which the small business concern has assigned, granted, licensed or otherwise conveyed, or each entity to which the small business concern is under an obligation under contract or law to assign, grant, license or otherwise convey, any rights in the invention is identified below:

☒ No such person, small business concern, or non-profit organization exists.

NAME OF ENTITY:

ADDRESS:

- ☐ Individual
☐ Small Business Concern
☐ Non-profit Organization

NAME OF ENTITY:

ADDRESS:

- ☐ Individual
☐ Small Business Concern
☐ Non-profit Organization

Separate verified statements are required from each individual, small business concern or non-profit organization having rights to the invention averring to their status as a small entity. (37 CFR 1.27).

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or maintenance fee due after the date on which the status as a small entity is no longer appropriate. (37 CFR 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing therefrom, or any patent to which this verified statement is directed.

REPRESENTATIVE OF SMALL BUSINESS CONCERN: **Daniel J. Loikits**
TITLE OF PERSON SIGNING: **President**

NAME OF SMALL BUSINESS CONCERN: **Advanced Fluid Technologies, Inc.**
ADDRESS OF SMALL BUSINESS CONCERN: **5250 W. Coplay Road**
Whitehall, PA 18052

SIGNATURE: _____

DATE: **July 10, 2000**